## IN THE CLAIMS

1. (currently amended) An immunogenie A composition comprising two or more components wherein each component consists of a substantially pure gonococcal antigen selected from the group consisting of: (1) an Outer Membrane Protein A (OmpA) protein; (2) an Outer Membrane Protein H (OmpH) protein; (3) a peptidyl-prolyl cis/trans isomerase (PPIase) protein; (4) an ngs41 protein; (5) an ngs117 protein; and (6) an adhesion penetration protein (App) protein,

wherein the OmpA protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:2,

wherein the OmpH protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:3,

wherein the PPIase protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:4,

wherein the ngs41 protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:5,

wherein the ngs117 protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:6; and

wherein the App protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:7.

(currently amended) The immunogenic composition of claim 1, comprising an
 OmpA protein, wherein the composition comprises the OmpA protein comprises

an amino acid sequence having 70% or more identity to SEQ ID NO:2.

- (withdrawn-currently amended) The immunogenic composition of claim 1,
   eomprising an OmpH protein, wherein the composition comprises the OmpH protein eomprises an amino acid sequence having 70% or more identity to SEQ ID NO:3.
- 4. (currently amended) The immunogenic composition of claim 1, comprising a

  PPlase protein, wherein the composition comprises the PPlase protein comprises

  an amino acid sequence having 70% or more identity to SEQ ID NO: 4.
- 5. (withdrawn-currently amended) The immunogenic composition of claim 1, emprising an Ngs41 protein, wherein the composition comprises the Ngs41 protein emprises an amino acid sequence having 70% or more identity to SEQ ID NO:5.
- 6. (withdrawn- currently amended) The immunogenic composition of claim 1, emprising an Ngs117 protein, wherein the composition comprises the Ngs117 protein emprises an amino acid sequence having 70% or more identity to SEQ ID NO:6.
- 7. (withdrawn- currently amended) The immunogenic composition of claim 1, emprising an App protein, wherein the composition comprises the App protein

eomprises an amino acid sequence having 70% or more identity to SEQ ID NO: 7.

- 8. (withdrawn) A hybrid polypeptide of formula NH2-A-{-X-L-}<sub>n</sub>-B-COOH, wherein: each X is an amino acid sequence as defined in any one of claims 2 to 7; L is an optional linker amino acid sequence; A is an optional N terminal amino acid sequence; B is an optional C terminal amino acid sequence; and n is 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 14 or 15.
- 9. (withdrawn) Nucleic acid encoding the hybrid polypeptide of claim 8.
- 10. (withdrawn) A lipidated gonococcal OmpA protein.
- 11. (withdrawn) A lipidated gonococcal PPIase protein.
- 12. (withdrawn) A dimeric gonococcal OmpH protein.
- 13. (withdrawn) A dimeric gonococcal PPlase protein.
- (withdrawn) A gonococcus strain, wherein one or more of the following gonococcal antigens is knocked out: (1) OmpA; (2) OmpH; (3) PPIase; (4) ngs41;(5) ngs117; and (6) App.

15. (currently amended) An immunogenie A composition, comprising [[an]] a substantially pure OmpA protein and a substantially pure PPIase protein,

wherein the OmpA protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:2; and

wherein the PPIase protein comprises an amino acid sequence having 70% or more identity to SEQ ID NO:4.

16. (currently amended) The immunogenie composition of claim 15

wherein the OmpA protein comprises an amino acid sequence having 80% or more identity to SEQ ID NO:2; and

wherein the PPIase protein comprises an amino acid sequence having 80% or more identity to SEQ ID NO:4.

17. (currently amended) The immunogenie composition of claim 15

wherein the OmpA protein comprises an amino acid sequence having 90% or more identity to SEQ ID NO:2; and wherein the PPIase protein comprises an amino acid sequence having 90% or

more identity to SEQ ID NO:4.

18. (currently amended) The immunogenie composition of claim 15

wherein the OmpA protein comprises an amino acid sequence having 95% or more identity to SEQ ID NO:2; and

wherein the PPIase protein comprises an amino acid sequence having

95% or more identity to SEQ ID NO:4.

19. (currently amended) The immunogenie composition of claim 15 wherein the OmpA protein comprises the amino acid sequence shown in

SEQ ID NO:2; and

wherein the PPIase protein comprises the amino acid sequence shown in SEQ ID NO:4.